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The inventi n claimed is:

- 1. An RF probe, comprising
- a conductive return;
- a insulating contact surface;
 - a probe conductor positioned adjacent to the insulating contact surface; and
- a termination electrically positioned between the conductive return and the probe
- 6 conductor.

ohms.

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2. The RF probe of claim 1, wherein the conductive return is a ground return.

- 3. The RF probe of claim 1, wherein the termination is a resistor.
- 4. The RF probe of claim 3, wherein the termination is a resistor of approximately 50



5. The RF probe of claim 1, wherein the termination is a semiconductor device.

6. The RF probe of claim 5, wherein the termination is a diode.



- 7. An RF probe, comprising:
- a conductive return;
- a probe conductor positioned within an insulator; and
- a termination electrically positioned between the conductive return and the probe
- 5 conductor.

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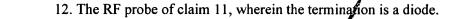
- 8. The RF probe of claim 7, wherein the conductive return is a ground return.
- 9. The RF probe of claim 7, wherein the termination is a resistor.

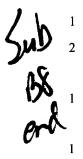
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- 10. The RF probe of claim 9, wherein the termination is a resistor of approximately 50
- 2 ohms.



11. The RF probe of claim 7, wherein the termination is a semiconductor device.





13. The RF probe of claim 7, wherein the insulator has at least a partial cross section that is substantially circular in a plane substantially perpendicular to the probe conductor.

- 14. The RF probe of claim 13, wherein the conductive return is a ground return.
- 15. The RF probe of claim 13, wherein the termination is a resistor.



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16. The RF probe of claim 15, wherein the termination is a resistor of approximately 50

2 ohms.



17. The RF probe of claim 13, wherein the termination is a semiconductor device.

18. The RF probe of claim 17, wherein the termination is a diode.

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4 5

6 7 19. An RF probe, comprising:

a conductive return;

- a probe conductor positioned within an insulator, the probe conductor being curved and the insulator having at least a partial cross section that is substantially circular in a plane substantially perpendicular to the probe conductor; and
- a termination electrically positioned between the conductive return and the probe conductor.

